

# User Manual

## InBioPC Series

Date: May 2025

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English

Thank you for choosing our product. Please read the instructions carefully before operation. Follow these instructions to ensure that the product is functioning properly. The images shown in this manual are for illustrative purposes only.



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If there is any issue related to the product, please contact us.

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## About the Company

ZKTeco is one of the world's largest manufacturer of RFID and Biometric (Fingerprint, Facial, Finger-vein) readers. Product offerings include Access Control readers and panels, Near & Far-range Facial Recognition Cameras, Elevator/floor access controllers, Turnstiles, License Plate Recognition (LPR) gate controllers and Consumer products including battery-operated fingerprint and face-reader Door Locks. Our security solutions are multi-lingual and localized in over 18 different languages. At the ZKTeco state-of-the-art 700,000 square foot ISO9001-certified manufacturing facility, we control manufacturing, product design, component assembly, and logistics/shipping, all under one roof.

The founders of ZKTeco have been determined for independent research and development of biometric verification procedures and the productization of biometric verification SDK, which was initially widely applied in PC security and identity authentication fields. With the continuous enhancement of the development and plenty of market applications, the team has gradually constructed an identity authentication ecosystem and smart security ecosystem, which are based on biometric verification techniques. With years of experience in the industrialization of biometric verifications, ZKTeco was officially established in 2007 and now has been one of the globally leading enterprises in the biometric verification industry owning various patents and being selected as the National High-tech Enterprise for 6 consecutive years. Its products are protected by intellectual property rights.

## About the Manual

This manual introduces the operations of the **InBioPC400/InBioPC800**.

All figures displayed are for illustration purposes only. Figures in this manual may not be exactly consistent with the actual products.

Features and parameters with ★ are not available in all devices.

## Document Conventions

Conventions used in this manual are listed below:

### GUI Conventions

| For Software     |                                                                                                                              |
|------------------|------------------------------------------------------------------------------------------------------------------------------|
| Convention       | Description                                                                                                                  |
| <b>Bold font</b> | Used to identify software interface names e.g. <b>OK</b> , <b>Confirm</b> , <b>Cancel</b> .                                  |
| >                | Multi-level menus are separated by these brackets. For example, File > Create > Folder.                                      |
| For Device       |                                                                                                                              |
| Convention       | Description                                                                                                                  |
| < >              | Button or key names for devices. For example, press <OK>.                                                                    |
| [ ]              | Window names, menu items, data table, and field names are inside square brackets. For example, pop up the [New User] window. |
| /                | Multi-level menus are separated by forwarding slashes. For example, [File/Create/Folder].                                    |

### Symbols

| Convention                                                                          | Description                                                                            |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|  | This represents a note that needs to pay more attention to.                            |
|  | The general information which helps in performing the operations faster.               |
|  | The information which is significant.                                                  |
|  | Care taken to avoid danger or mistakes.                                                |
|  | The statement or event that warns of something or that serves as a cautionary example. |

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# 1 Safety Instructions

## 1.1 Important Notes

1. Before operating the device, please read and strictly follow all security and operation instructions. Please keep the instructions in good condition for future reference.
2. Please use the accessories recommended by the manufacturer or delivered together with the product. Any other related product is not recommended to be used as the alarm or monitoring system (cameras, infrared detectors, smoke detectors, etc.). The alarm or monitoring system should comply with the local applicable fire-prevention and security standards.
3. Do not place this device on any unstable table, tripod mount, subterminal or base to prevent the device from falling and damages, and more undesirably causing severe personal injuries. Therefore, it is important to install the device as instructed by the manufacturer.
4. All peripheral devices must be grounded.
5. No external connection wires can be exposed. All connections and idle wire ends must be wrapped with insulating tapes to prevent accidental contact with exposed wires from damaging the device.
6. Do not attempt to carry out unauthorized repair of the device. Disassembly or detachment is likely to cause electric shock or other physical problems. All repair should be done by qualified repair personnel.
7. In any of the following cases, disconnect the power supply from the device first and notify qualified repair personnel for repair:
  - The power cord or connector is damaged;
  - Liquid leaks into or any objects fall into the device;
  - The device has got wet or exposed to bad weather (rain, snow, etc.);
  - If the device cannot work normally even though it is operated as instructed;
  - The device falls down or its performance changes obviously.
8. If it is necessary to replace a component, the repair personnel must use only the substitutes specified by the manufacturer.
9. After the device is repaired, the repair personnel needs to conduct security inspection to ensure the device works normally.
10. Operate the device with only the type of power supply indicated on the label. Contact the operator for any uncertainty about the type of power supply.





**Violation of any of the following cautions may result in personal injury or device malfunctions. We assume no responsibility for any damage caused by mishandling that is beyond normal usage defined in this product manual.**

- Before installation, switch off the external circuit (that supplies power to the system).
- Before connecting the device to power supply, ensure the output voltage is within the specified range.
- Never connect the product to the power before completion of installation.

## 1.2 Installation Cautions

1. Network cable selection must be Super Category 5 network cable oxygen-free copper material above specifications, core nominal diameter 0.5mm. 100 meters of single wire resistance is less than 10 ohms. Try to choose a higher specification network cable (such as Category 6 oxygen-free copper material), reserve enough margin to meet the maximum load requirements.
2. All wiring must be sleeved, optional PVC pipe and galvanized pipe, to avoid mice bite off the line caused by failure. Although the controller has a good anti-static, lightning, leakage-proof design, please make sure that the controller chassis and AC ground connection is perfect, and the AC ground is truly grounded.
3. It is recommended not to plug and unplug connection terminals frequently when the system is energized. Be sure to unplug the connection terminals before starting any relevant welding job.
4. Do not detach or replace any control panel chip without permission because unprofessional operation may cause damage to the control panel.
5. It is recommended not to connect any other auxiliary devices without permission. All non-routine operations must be confirmed with our engineers in advance.
6. A control panel should not share one power socket with any other large-current devices.
7. It is preferable to install card readers and buttons at a height of 55 inches to 59 inches (1.4m to 1.5m) above the ground, subject to proper adjustment according to customers' usual practice.
8. The device is recommended to be installed in an easy-to-maintain location such as a server room or weak well.
9. The exposed part of any connection terminal is strongly recommended not be longer than 0.16 inches (4mm). Professional clamping tools may be used to avoid short-circuit or communication failure resulting from accidental contact with excessive exposed wires.
10. If you need to keep a record of access control events, periodically export the data from the controller.
11. Prepared countermeasures against unexpected power failure, like selecting power supply with UPS.

12. In order to prevent the self-induced electromotive force generated by the electric lock at the moment of switching on and off from affecting the access control system, it is necessary to connect a diode in parallel with the electric lock (please use the FR107 diode supplied with the system) to release the self-induced electromotive force generated at the moment of switching on and off of the electric lock during the wiring of the access control system on-site application.
13. It is recommended to use the power supply delivered with the system as the control panel power supply.
14. In a place with strong magnetic interference, galvanized steel pipes or shielded cables are recommended, and proper grounding is required.

## 2 Overview

The InBioPC Main Controller is the pinnacle of access control technology, offering seamless integration with DE-10 Door Units and supporting up to 4/8 access points. Engineered for high-speed TCP/IP communication, it ensures efficient and reliable data transfer. The onboard webserver, accessible via Wi-Fi, simplifies system configuration, providing unparalleled ease of use. Compliant with power over Ethernet (PoE IEEE802.3 and PSE@30W) standards, the InBioPC can power up to 4/8 DE-10 Door Units, delivering both performance and convenience.

This advanced controller boasts a suite of sophisticated access control functions and supports dynamic QR code generation through the ZKBio CVSecurity Mobile Applications, enhancing security and user experience. With support for InBioPC offers versatile authentication methods to meet diverse security needs. Its compatibility with the ZKTeco A&C push protocol ensures seamless communication with ZKBio CVSecurity software.

Operating within a wide voltage input range of AC 100V~240V, the InBioPC is designed for global deployment. It incorporates high-security data encryption methods, including HTTP / HTTPS, SSH, AES256, and TLS 2.0, safeguarding sensitive information. Supporting both Wiegand readers (formats: W26 / W34 / W66) and RS485 card readers (protocol: ZKTeco RS-485), it provides flexible connectivity options.

Furthermore, the InBioPC is designed in a standard 1U server rack size, ensuring compatibility with standard server rack installations. This makes it an ideal choice for organizations looking to deploy a robust, scalable, and secure access control solution.



InBioPC-400



InBioPC-800

## 2.1 Features

- Seamlessly integrates with DE-10 Door Units, supporting up to 4/8 access points.
- Supports high-speed TCP/IP communication for efficient data transfer.
- An embedded onboard webserver is available for system configuration and is accessible via Wi-Fi.
- Complies with IEEE 802.3 at PoE and PSE@30W standards to power up to 4/8 DE-10 Door Units.
- Equipped with advanced access control functions for enhanced security.
- Supports dynamic QR code generation with ZKBio CVSecurity Mobile Applications.
- Supports multiple credential options, including biometrics, RFID, and password.
- Compatible with the A&C push protocol.
- Operates with a wide voltage input range of AC 100V~240V.
- Supports high-security data encryption methods such as HTTP / HTTPS, SSH, AES256, and TLS 2.0.
- Supports Wiegand readers (formats: W26 / W34 / W66) and RS485 card readers (protocol: ZKTeco RS-485)
- Designed in standard 1U server rack size to be compatible with standard server rack installation.

## 2.2 Technical Specifications

| Model                                | InBioPC-400                                                                                                                                                                                                                                                                                                                                                                                                                                                           | InBioPC-800                                                          |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>Onboard Visual Indicator</b>      | POWER (RED): ON - Power Normal, OFF - No Power;<br>RUN (GREEN): Slow Flashing - Normal Use, Flashing - Host not connected, OFF - No Power;<br>LAN (GREEN): Steady on - No data interaction, Flashing - Data in Interaction, OFF - Network Connection Abnormal;<br>FIRE (RED): Flashing - In Fire Alarm, OFF - No Fire Alarm;<br>AUX IN (RED): Flashing - In Alarm, OFF - No Alarm;<br>DOOR (GREEN): Steady ON - Door Closed, Flashing - Door Open, OFF - Lock Offline |                                                                      |
| <b>Operation System</b>              | Linux                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                      |
| <b>Hardware</b>                      | CPU: Dual Core@1.0GHz<br>RAM: 128MB; ROM: 256MB                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                      |
| <b>Authentication method</b>         | Card / Password / Fingerprint / QR code                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      |
| <b>Access Point Capacity</b>         | Onboard Access Point: 0<br>Max Access Point: 4 (with DE10 Door Unit)                                                                                                                                                                                                                                                                                                                                                                                                  | Onboard Access Point: 0<br>Max Access Point: 8 (with DE10 Door Unit) |
| <b>Fingerprint Template Capacity</b> | 4,000 (1:N) (Standard)                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                      |
| <b>Card Capacity</b>                 | 40,000 (1:N) (Standard)                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      |
| <b>QR Code Capacity</b>              | 40,000 (QR Code and Dynamic QR Code)                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                      |
| <b>User Capacity</b>                 | 40,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                      |
| <b>Transaction Capacity</b>          | 200,000 (Standard)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                      |
| <b>Number of Inputs</b>              | 1*AUX Inputs, 1*FIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                      |

|                                      |                                                                                                                                                                   |                                                                                |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Number of Outputs</b>             | 1*Form C Relay for Aux Output<br>1*Form C Relay for Alarm                                                                                                         |                                                                                |
| <b>Supported Biometric Algorithm</b> | ZKFingerprint V10.0                                                                                                                                               |                                                                                |
| <b>Max. Card Length</b>              | Supports up to 66 bits Card Length                                                                                                                                |                                                                                |
| <b>QR Code</b>                       | Dynamic QR codes on the ZKBio CVSecurity mobile application QR code                                                                                               |                                                                                |
| <b>Communication</b>                 | TCP/IP*1 Wi-Fi (IEEE802.11b/g/n/, 1T1R @ 2.4 GHz) (Wi-Fi only for webserver access)                                                                               |                                                                                |
| <b>Standard Functions</b>            | Webserver, Up to 14-digit User ID, Access Levels, Access Groups, Holidays, Anti-passback, Anti-tailgating, Linkage, Global Linkage, Multiple Verification Methods |                                                                                |
| <b>Verification Speed</b>            | less than 0.3 sec (Fingerprint)                                                                                                                                   |                                                                                |
| <b>Power Supply</b>                  | Power Input: AC 100V~240V<br>Power Output: POE (IEEE802.3at PSE@30W output) *4                                                                                    | Power Input: AC 100V~240V<br>Power Output: POE (IEEE802.3at PSE@30W output) *8 |
| <b>Operating Temperature</b>         | 0°C to 45°C                                                                                                                                                       |                                                                                |
| <b>Operating Humidity</b>            | 20% to 80% RH (Non-condensing)                                                                                                                                    |                                                                                |
| <b>Dimensions</b>                    | 440mm*180mm*45mm (L*W*H)<br>(Standard 1U Server Rack Size)                                                                                                        | 440mm*180mm*45mm (L*W*H)<br>(Standard 1U Server Rack Size)                     |
| <b>Gross Weight</b>                  | 2.725Kg                                                                                                                                                           | 2.825Kg                                                                        |
| <b>Net Weight</b>                    | 2.079Kg                                                                                                                                                           | 2.179Kg                                                                        |
| <b>Supported Software</b>            | ZKBio CVSecurity                                                                                                                                                  |                                                                                |
| <b>Installation</b>                  | Supported Rack-mount (Compatible with Standard Server Rack) / Wall-mount / Desktop                                                                                |                                                                                |
| <b>Housing Material</b>              | SGCC                                                                                                                                                              |                                                                                |

**Certifications**

ISO14001, ISO9001, CE, FCC, RoHS

### 3 Controller Terminal Description

#### 3.1 Description of the LEDs on the Controller Panel

When the InBioPC series controller is powered on, under normal conditions, the POWER indicator (red) is always on, the RUN indicator (green) flashes (indicating a normal system), and none of the other lights are on. However, in the following cases:



| Menu         | Color | Description                                                                                                                                  |
|--------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>POWER</b> | Red   | Red light always on (power supply normal power supply)<br>Red light off (abnormal power supply)                                              |
| <b>RUN</b>   | Green | Green light flashes slowly (system normal)<br>Green light flashes fast (firmware upgrade in progress)<br>Green light off (dead)              |
| <b>LAN</b>   | Green | Green light always on (no data interaction)<br>Green light flashing (with data interaction)<br>Green light off (abnormal network connection) |

|                |     |                                                                                                                                                                                              |
|----------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FIRE</b>    | Red | <p>Red light flashing (with access to fire protection and receiving a short circuit signal)</p> <p>Red light off (have access to fire protection but not receiving short circuit signal)</p> |
| <b>AUX IN</b>  | Red | <p>Red light blinking (there is access to the auxiliary input and receive a signal)</p> <p>Red light off (auxiliary input accessed but no signal received)</p>                               |
| <b>AUX OUT</b> | Red | <p>Red light blinking (there is access to the auxiliary output and output signal)</p> <p>Red light is off (auxiliary output is connected, but no signal is received)</p>                     |

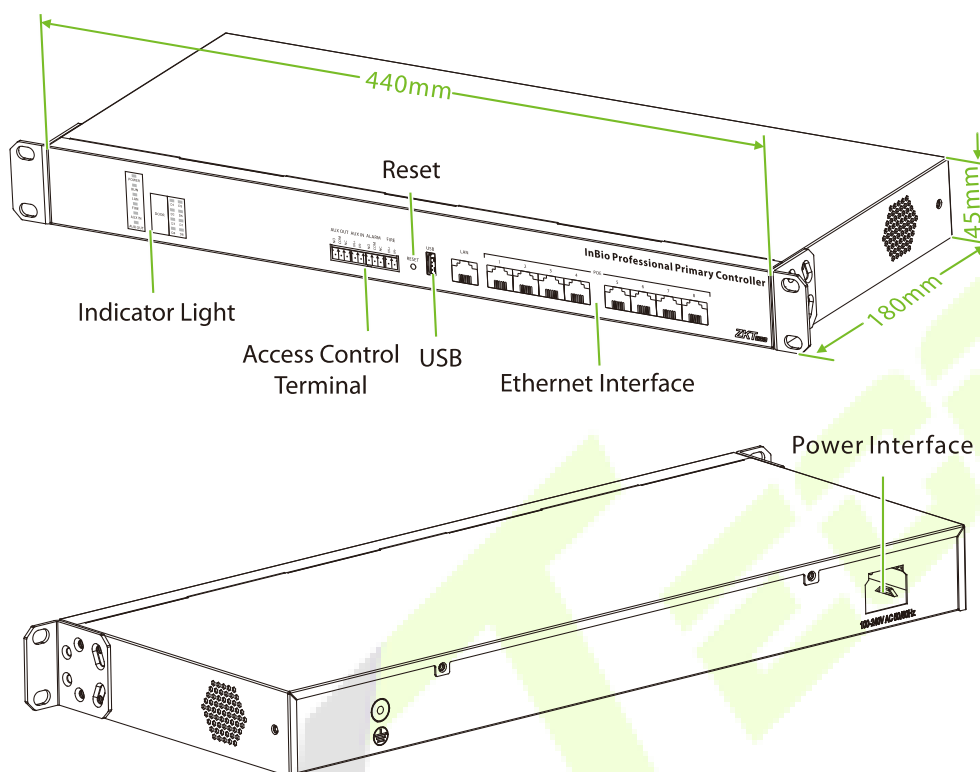
The indicators for the access control terminals are as follows:



| Menu        | Color | Description                                                                                                                                                                      |
|-------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DOOR</b> | Green | <p>Green light always on (online status door sensor off/no door sensor)</p> <p>Green light flashing (online status door sensor open)</p> <p>Green light off (offline status)</p> |



## 3.2 Appearance and System Components



### Access Control Terminal:

| No.                                                                                                | Description                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>AUX OUT</p>  | <p>Auxiliary output, can be connected to alarm or doorbell, etc.</p> <p>Maximum switching voltage of the contact is 24VDC, maximum switching current is 1A.</p> |
| <p>AUX IN</p>   | <p>Auxiliary input, can be connected to infrared human body sensing detector, fire alarm or smoke detector, etc.</p> <p>Maximum input voltage 12VDC.</p>        |

|                                                                                                |                                                                                                                                      |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <p>ALARM</p>  | <p>Alarm output for alarm connection</p> <p>Maximum switching voltage of the contact is 24VDC, maximum switching current is 1A.</p>  |
| <p>FIRE</p>   | <p>Fire input, external fire button, trigger the fire button, all doors forced normally open</p> <p>Maximum input voltage 12VDC.</p> |

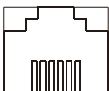
**Reset:**

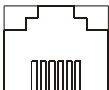
| No.                                                                                              | Description                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>RESET</p>  | <p>Use a pickup pin to poke the device long:</p> <ul style="list-style-type: none"> <li>0 &lt; <b>Firmware Upgrade</b> ≤ 5s (Insert the USB flash drive with firmware before poking the device with the pickup pin for a long time)</li> <li>5s &lt; <b>Reboot</b> ≤ 10s</li> <li>10s &lt; <b>Restore Factory Settings</b></li> </ul> |

**USB:**

| No.                                                                                 | Description                                                           |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|  | <p>Support plugging in a USB flash drive to upgrade the firmware.</p> |

**Ethernet Interface:**

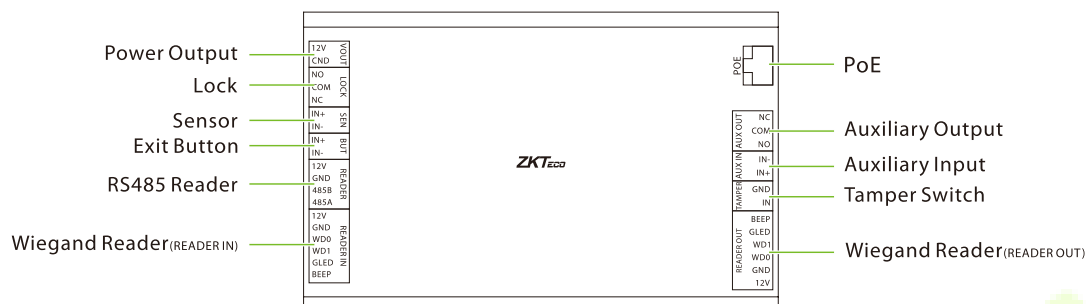
| No.                                                                                            | Description                                        |
|------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <p>LAN</p>  | <p>Connect a switch for network communication.</p> |

|                                                                                                      |                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>PoE 1.....8</p>  | <p>4 PoE interfaces (InBioPC-400), 8 PoE interfaces (InBioPC-800), through this network interface directly to the front-end DE10 power supply and data transmission.</p> |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.3 Wire Selection Instructions

| Name                 | Specifications                                                                                                                                                                                                                                                                                                                                | Maximum Distance |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>Network Cable</b> | Network cable selection must be Super Category 5 network cable oxygen-free copper material above specifications, single wire 100 meters resistance is less than 10 ohms. Try to choose a higher specification of network cable (such as Category 6 oxygen-free copper material), reserve enough margin to meet the maximum load requirements. | 100m             |

## 4 DE10



| Terminal                                                                            | Description                    |                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | PoE                            | <p>Interfaces with the InBioPC series intelligent identification access controller.</p> <p>Compliant with IEEE 802.3at standard, DE10 recommended total output current less than 1.5A to external loads, including VOUT output, 485 reader power output, Wiegand reader power output, electric lock output, auxiliary output and so on.</p> |
|  | Auxiliary Output               | <p>Connect to alarm or doorbell, etc.</p> <p>Maximum switching voltage of the contact is 24VDC, maximum switching current is 1A.</p>                                                                                                                                                                                                        |
|  | Auxiliary Input                | <p>Connect infrared human body sensor detector or smoke detector, etc.</p> <p>Maximum input voltage 12VDC</p>                                                                                                                                                                                                                               |
|  | Tamper Switch                  | <p>Timely notification to stop illegal dismantling of device.</p> <p>Maximum input voltage 12VDC.</p>                                                                                                                                                                                                                                       |
|  | Wiegand Reader<br>(Reader Out) | <p>Maximum output voltage 12VDC, maximum output current 0.5A, maximum input voltage 12VDC</p>                                                                                                                                                                                                                                               |

|                                                                                 |                               |                                                                                                                                      |
|---------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <div> 12V<br/>GND<br/>WD0<br/>WD1<br/>GLED<br/>BEEP </div> <div>READER IN</div> | Wiegand Reader<br>(Reader In) | Maximum output voltage 12VDC, maximum output current 0.5A, maximum input voltage 12VDC                                               |
| <div> 12V<br/>GND<br/>485B<br/>485A </div> <div>READER</div>                    | RS485 Reader                  | Maximum output voltage 12VDC, maximum output current 0.5A, maximum input voltage 6VDC                                                |
| <div> IN+<br/>IN- </div> <div>BUT</div>                                         | Exit Button                   | Connection of door exit button<br>Maximum input voltage 12VDC                                                                        |
| <div> IN+<br/>IN- </div> <div>SEN</div>                                         | Sensor                        | Connecting door sensor<br>Maximum input voltage 12VDC                                                                                |
| <div> NO<br/>COM<br/>NC </div> <div>LOCK</div>                                  | Lock                          | Connecting door lock<br>Maximum switching voltage of contacts 30VDC, maximum switching current 5A                                    |
| <div> 12V<br/>CND </div> <div>VOUT</div>                                        | Power Output                  | 12V power output from DE10 (connected to InBioPC series directly via PoE)<br>Maximum output voltage 12VDC, maximum output current 1A |

## 4.1 Wire Selection Instructions

| Name                 | Specifications                                                                                                                                                                                                                                                                                                                                                            | Maximum Distance                 |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Wiegand</b>       | Adopt 6-core communication shielded cable (RVVP 6*0.5mm <sup>2</sup> ) (usually 6-core, 8-core, 10-core, users can choose according to the need of the port), to reduce the interference during transmission                                                                                                                                                              | 20m                              |
| <b>Electric lock</b> | 4-core cable (RVV 4* 0.75mm <sup>2</sup> , 2-core power, 2-core door magnet) is used to minimize the impact on other components during the operation of the electric lock                                                                                                                                                                                                 | 20m                              |
| <b>Exit Button</b>   | Use of 2- or 4-core cable (RVV 2 * 0.5mm <sup>2</sup> )                                                                                                                                                                                                                                                                                                                   | 20m                              |
| <b>RS485 Reader</b>  | 4-core communication cable (RVVSP 2 * 2 * 0.5mm <sup>2</sup> ) is used                                                                                                                                                                                                                                                                                                    | 20m with controller power supply |
| <b>Network Cable</b> | Network cable selection must be Super Category 5 network cable oxygen-free copper material above specifications, core nominal diameter 0.5mm. 100 meters of single wire resistance is less than 10 ohms. Try to choose a higher specification network cable (such as Category 6 oxygen-free copper material), reserve enough margin to meet the maximum load requirements | 100m                             |

## 5 Installation

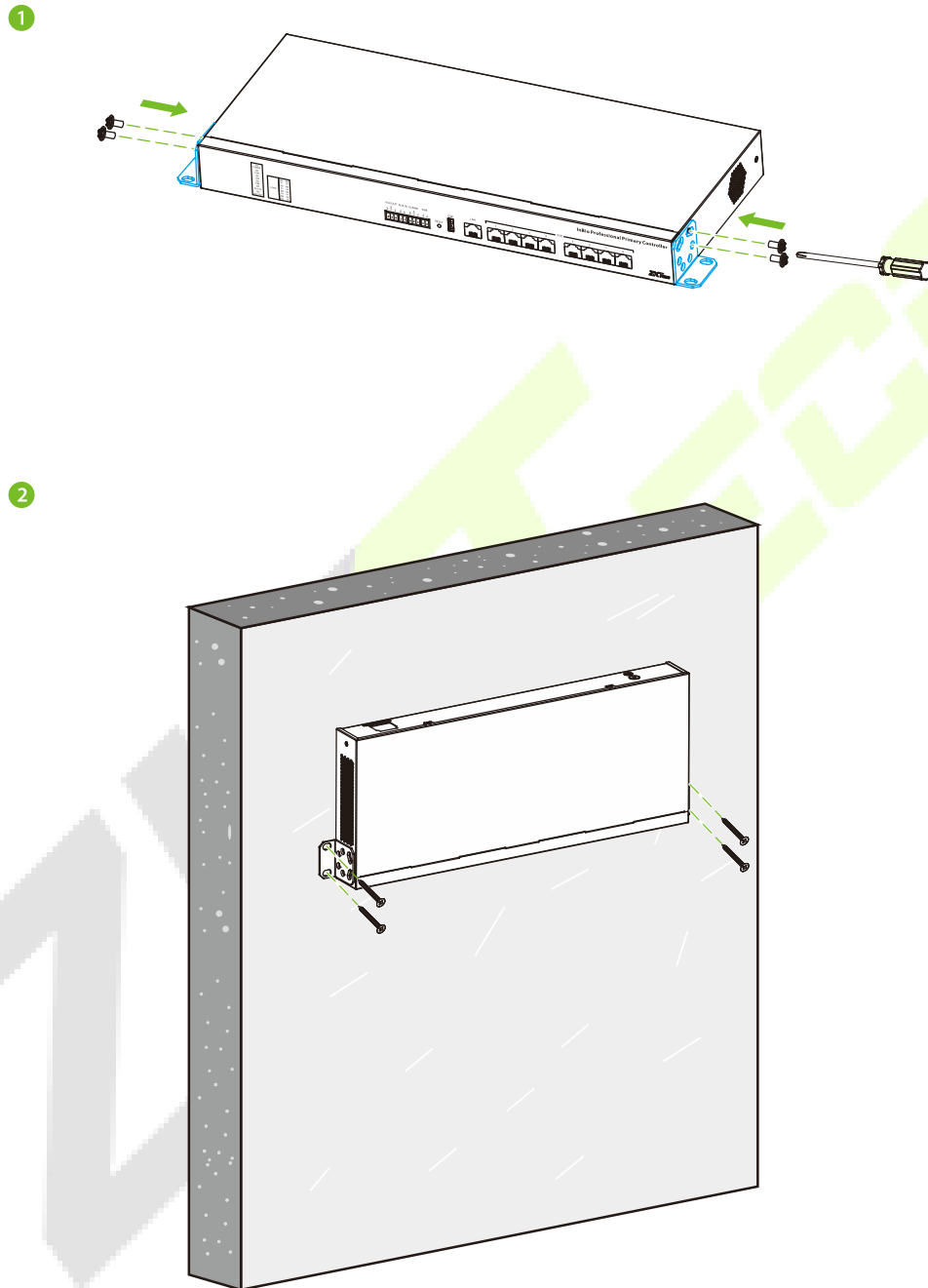
### ● Installation in Cabinet

1. Attach the Back Plate to the device as shown in the figure below.
2. Place the device in the cabinet and secure it with screws.



- **Wall Mount**

1. Attach the Back Plate to the appliance as shown in the figure below.
2. Secure the device to the wall with screws.

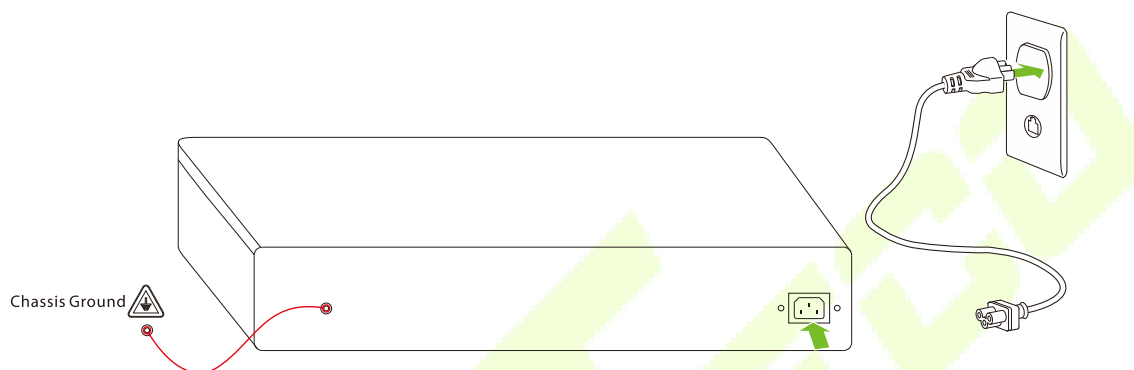




## 6 Access Controller Wiring

### 6.1 Power Supply Connection

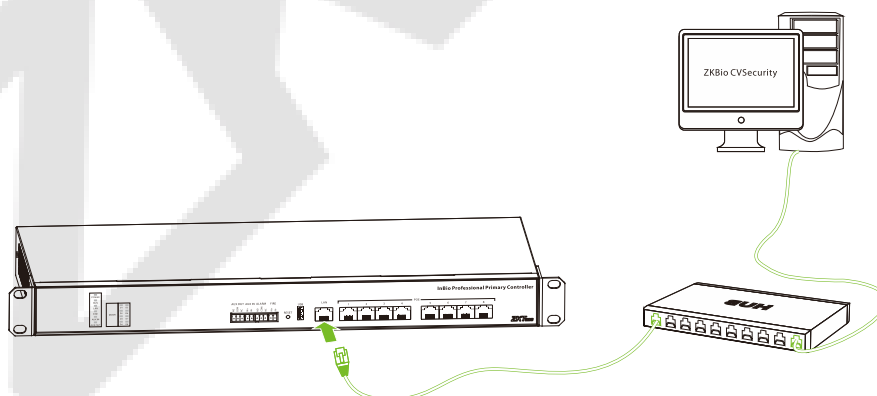
Please use the power supply configured for the InBioPC series controller which is rated 100 - 240V, AC 50/60Hz.



**Note:** Before connecting the power supply, please make sure that the controller is well connected to the chassis ground and the AC ground is truly grounded.

### 6.2 Computer Connection

Connect the InBioPC series controller to the PC software via an Ethernet cable. The wiring is shown below:



**Note:** The default IP address of the primary NIC is 192.168.1.201.

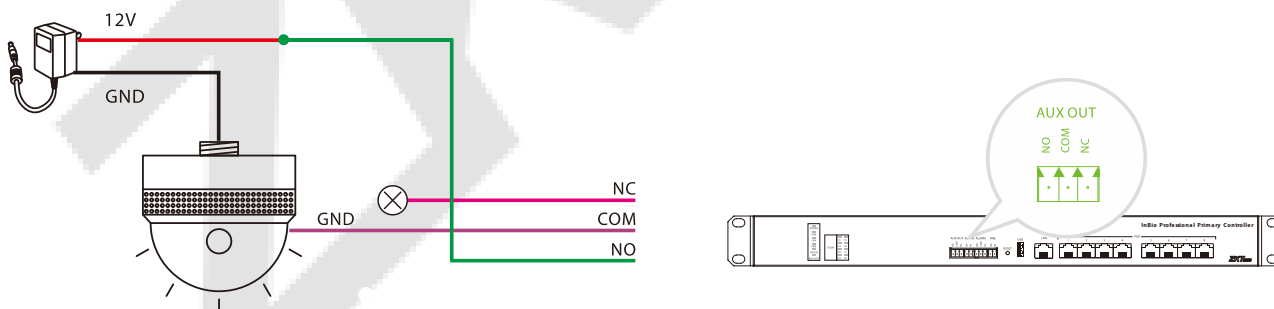
## 6.3 DE10 Connection

The InBio PC series controller communicates with the DE10 door units via a single network cable that also provides Power over Ethernet (PoE IEEE 802.3at). The DE10 units then connect to readers, exit buttons, locks, and other peripheral devices, creating a streamlined architecture. This design significantly reduces installation complexity, minimizes connection errors, lowers installation costs, and simplifies maintenance by eliminating troublesome traditional wiring methods.



## 6.4 Auxiliary Outputs Connection

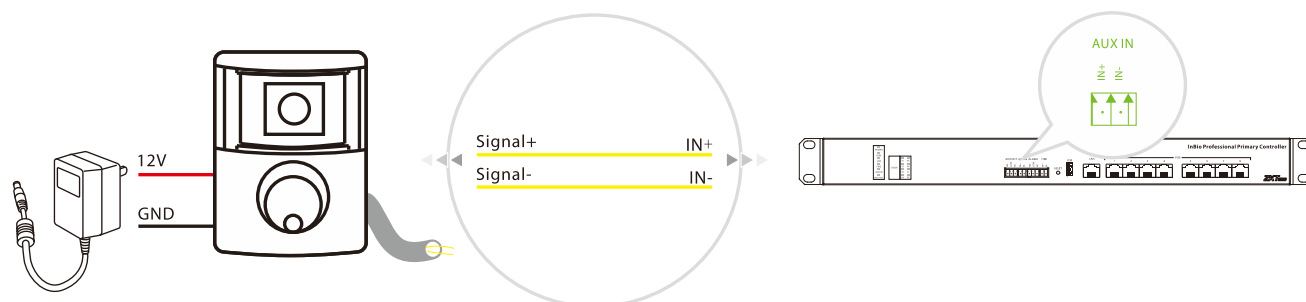
The InBioPC series provides 1 auxiliary output connector for connecting an audible and visual alarm. Upon receiving signals such as fire alarms or unauthorized intrusions, the alarm will emit audible alerts and visual signals.



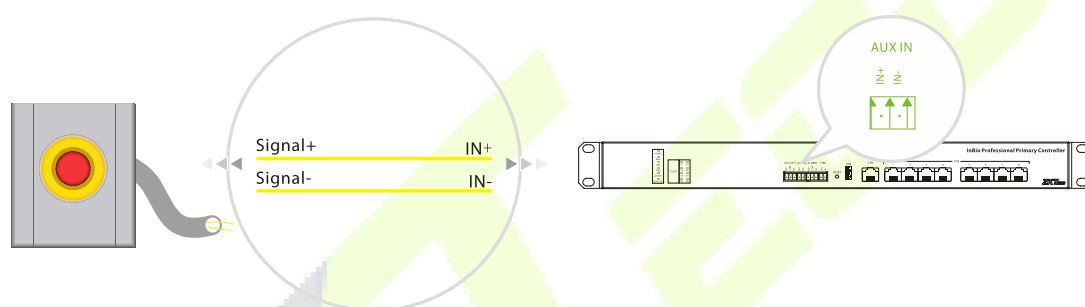
## 6.5 Auxiliary Inputs Connection

The InBioPC series provides 1 auxiliary input port for connecting infrared body sensing detectors, fire alarms or smoke detectors etc.

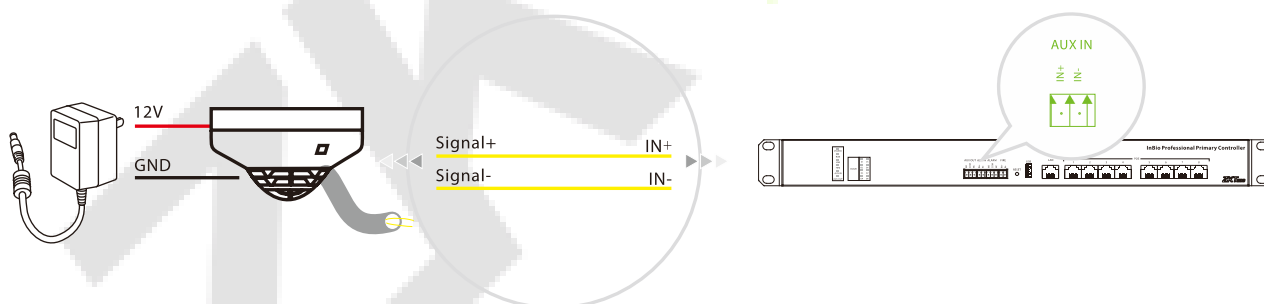
### ● Infrared Human Body Sensor Detector



### ● Fire

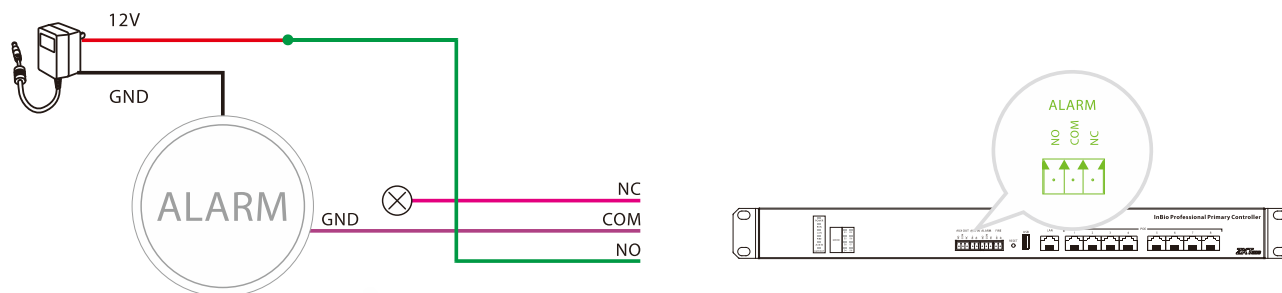


### ● Smoke Detector



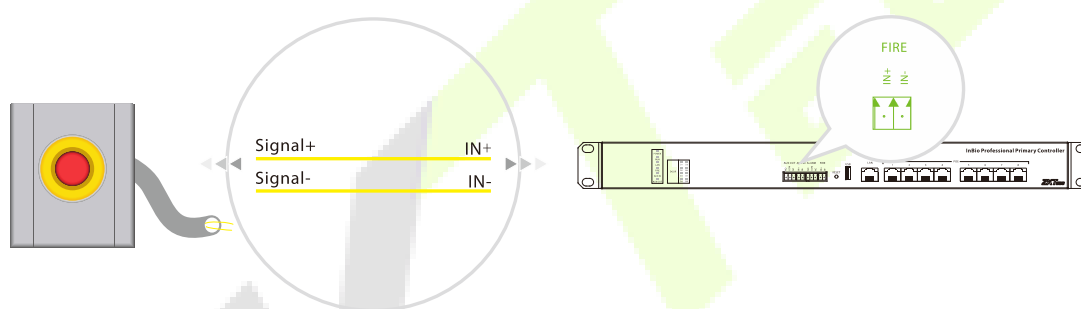
## 6.6 Alarm Connection

The alarm sounds when signals such as fire alarms or break-ins are received.



## 6.7 Fire Protection Input Interface Connection

When the fire protection input interface is short-circuited, all doors of the unit automatically enter the normally open state, the alarm, and the global linkage function (need to be turned on). When the equipment restarts, it does not affect the normal function of the fire fighting interface.

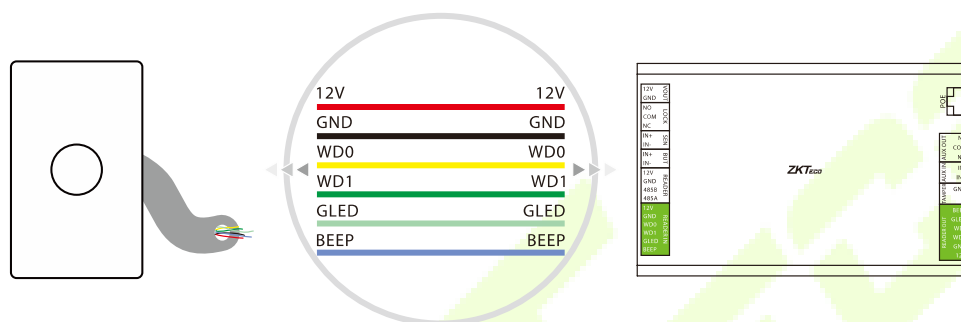


## 7 DE10 Wiring

### 7.1 Reader Connection

#### 7.1.1 Wiegand Reader Connection

Taking the ProID103 reader as an example, after the InBioPC series is successfully connected to the DE10, connect the Wiegand interface between the DE10 and the ProID103.

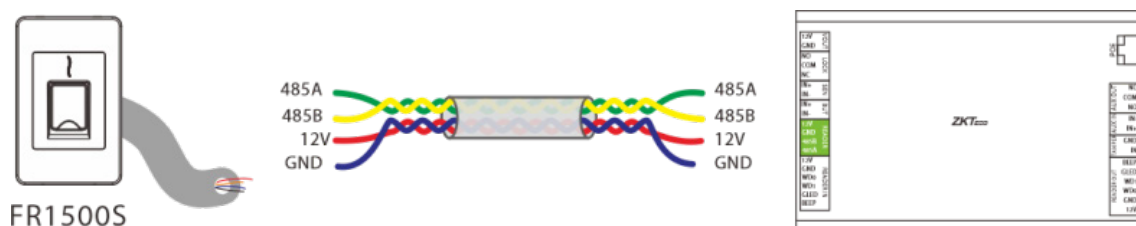


**Note:**

1. One DE10 has two Wiegand reader interfaces, up to 2 Wiegand readers can be connected, and single door bidirectional can be set up.
2. The reader should be installed about 1.4m from the ground and 30 ~ 50mm from the door edge.

#### 7.1.2 Connecting the RS485 Reader

1. Shielded twisted-pair cables, which are internationally recognized, must be used. The recommended type of shielded twisted-pair cable is RVVSP4\*0.5. The use of shielded twisted-pair cable helps to reduce and eliminate the distributed capacitance between the two 485 communication lines as well as the common-mode interference generated around the communication lines.
2. 485A and 485B data lines must be twisted, DE10 GND, 485A, 485B were connected to the RS485 reader GND, 485A, 485B. wiring must be cloth multi-stranded shielded twisted-pair cable, multi-stranded for backup, shielding is for debugging when a special situation arises, twisted because of the 485 communication using the principle of differential mode communication, twisted anti-jamming of the best.

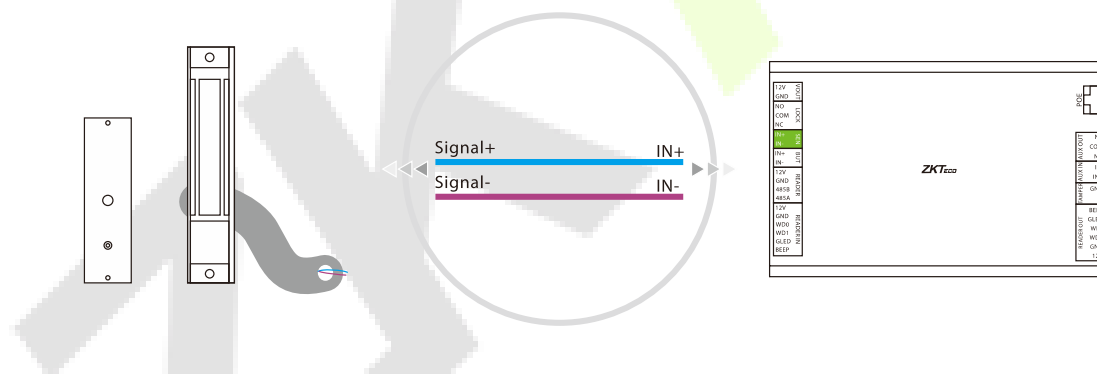


**Note:**

1. A DE10 has one RS485 reader interface and up to 2 RS485 readers can be connected, the RS485 address codes must be 1 and 2.
2. The reader should be installed about 1.4m from the ground and 30 ~ 50mm from the door edge frame.
3. When DE10 is not connected to the controller's PoE port which is set as Master-slave mode or DE10 is in factory default state without prior controller connection, validating any card, password, fingerprint, or QR code on externally connected readers will successfully unlock the door lock for 5 seconds, no access records will be saved. (The controller 's PoE port mode can be set on the Webserver)

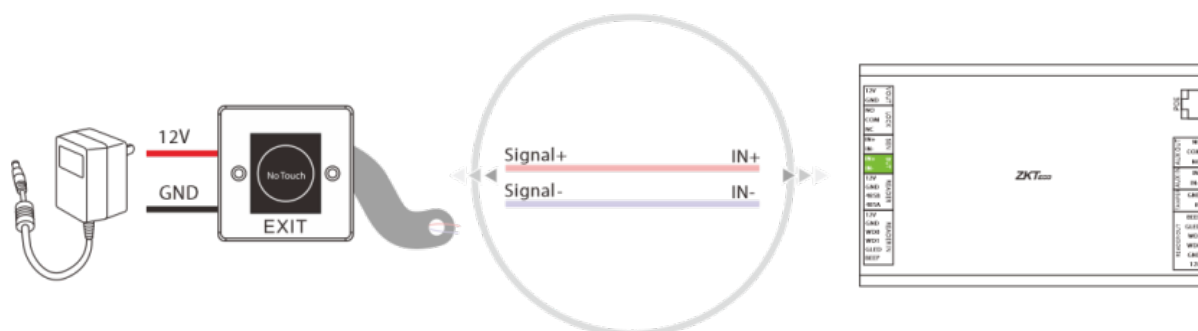
## 7.2 Connecting the Sensor

Door sensor is used to sense the switching state of the door, the access controller can detect the door being opened illegally through the door sensor switch, and then the alarm will be output. In addition, after opening the door in more than a specified period of time did not close the door, the access controller will also prompt the alarm. It is recommended to choose two-core wire, wire diameter of 0.22 square millimeters or more. If there is no need to know the switching status of the door online and no need for the door to be left open for a long time alarm, break-in alarm and interlock and other functions, the door sensor may not be connected.



## 7.3 Connecting the Exit Button

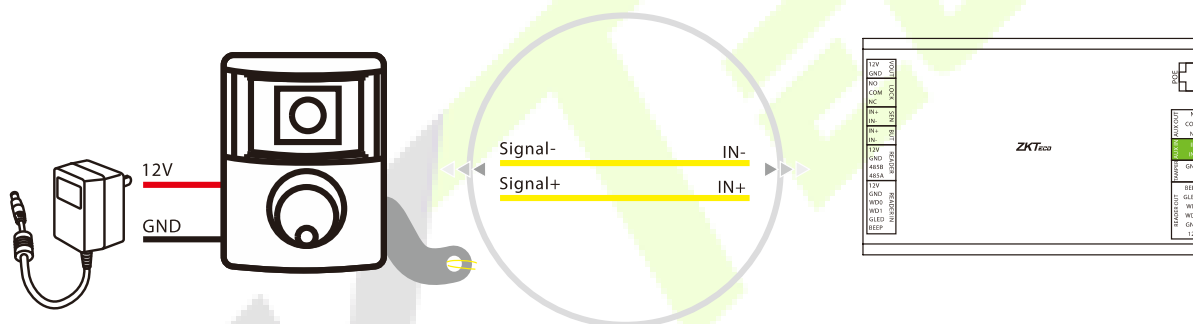
The exit button is a switching device for opening the door installed inside the room, and the door can be opened when the exit button is closed. The exit button is fixed at about 1.4 meters from the ground, and it should be ensured that the position of the exit button is correct, without distortion, and the wiring is accurate and firm (pinch off the exposed end of the unused wires and wrap them with insulating tape). Be careful to prevent electro sensor interference (such as: lighting switches, computers, etc.). It is recommended to use two-core wires with a cross-section area of 0.3 mm<sup>2</sup> or more for the wires connecting the exit button to the controller.



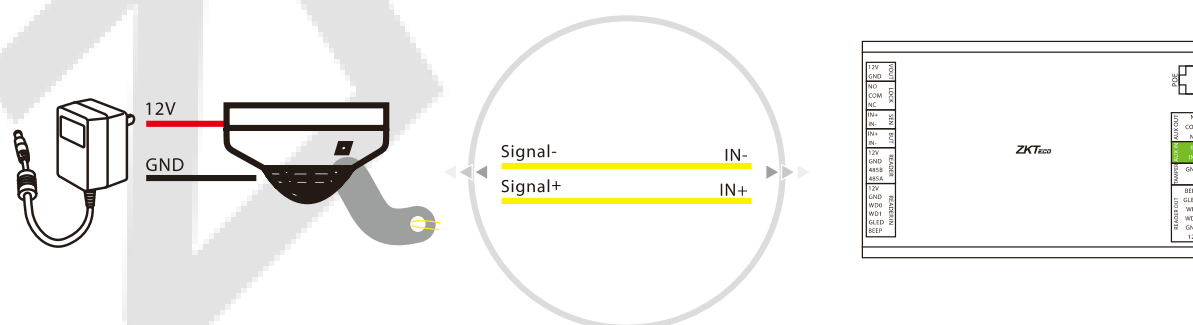
## 7.4 Auxiliary Input Connection

The DE10 provides 1 auxiliary input port for connecting infrared body sensing detectors or smoke detectors etc.

### ● Infrared Human Body Sensor Detector

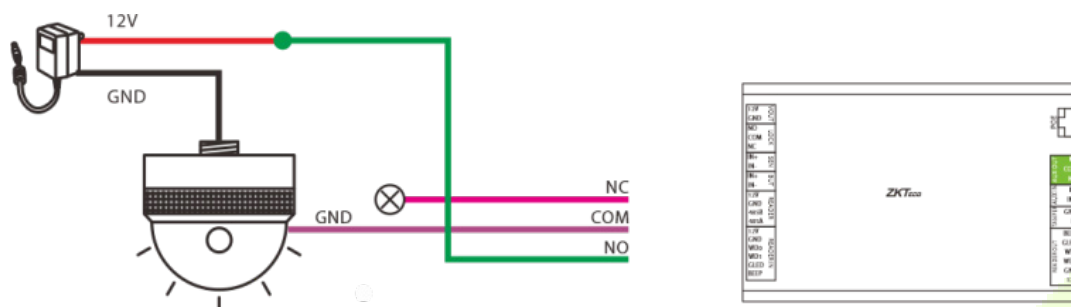


### ● Smoke Detector



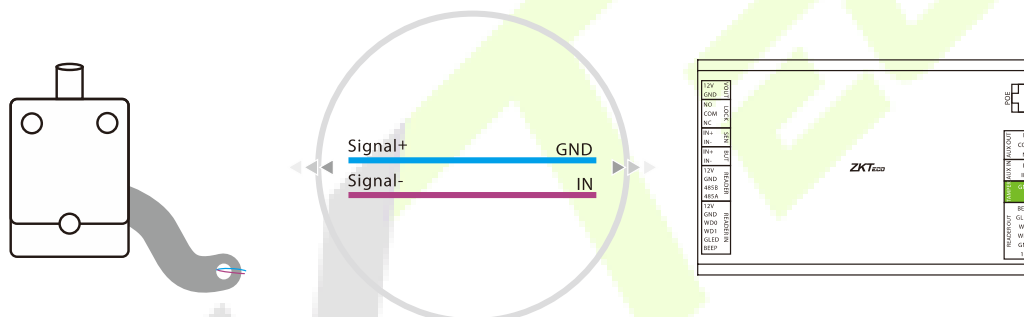
## 7.5 Auxiliary Output Connection

The DE10 provides 1 auxiliary output connector for connecting an audible and visual alarm.



## 7.6 Tamper Switch Connection

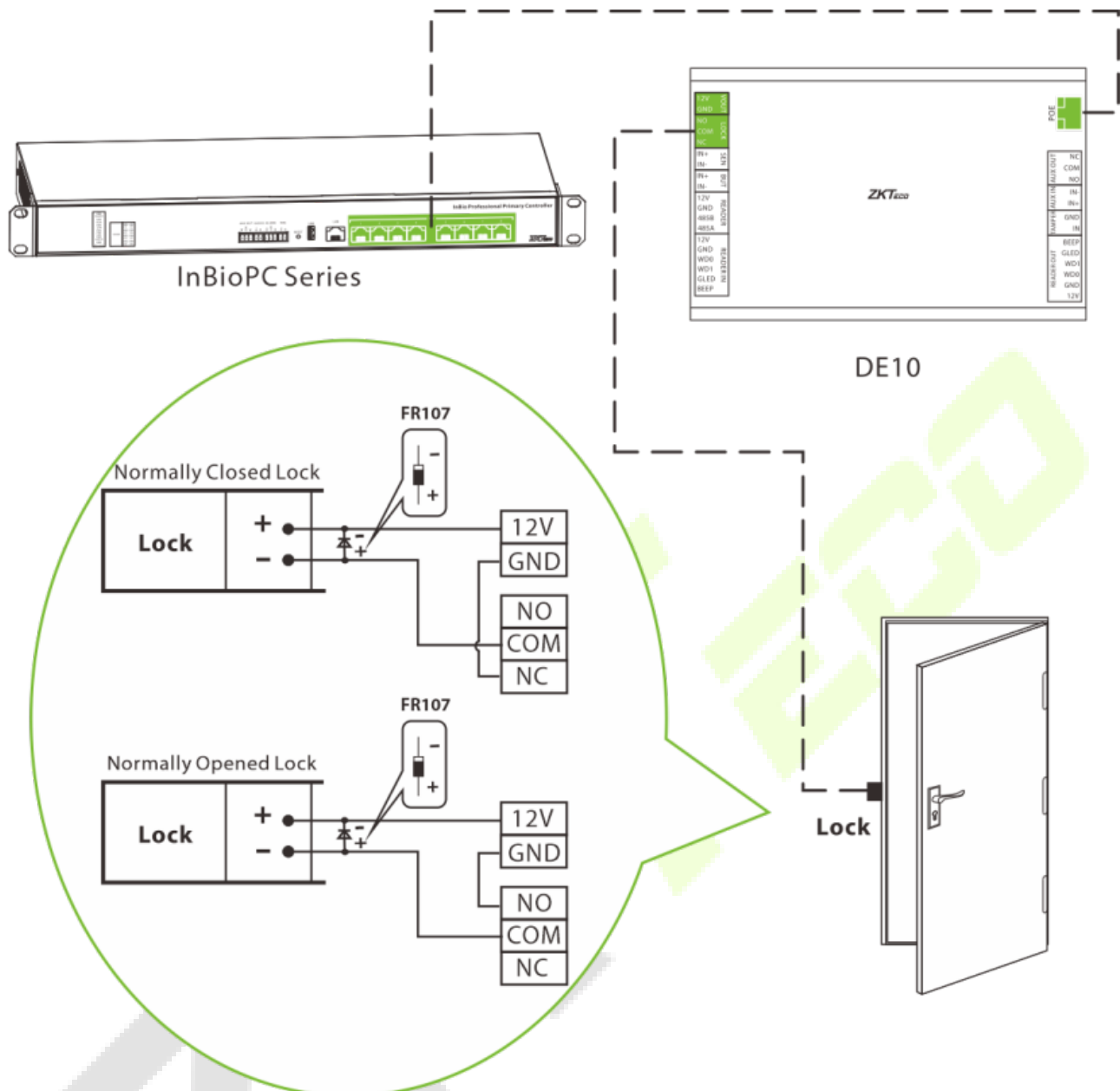
The tamper signal of the DE10 is connected to the tamper switch of the cabinet.



## 7.7 Lock Connection

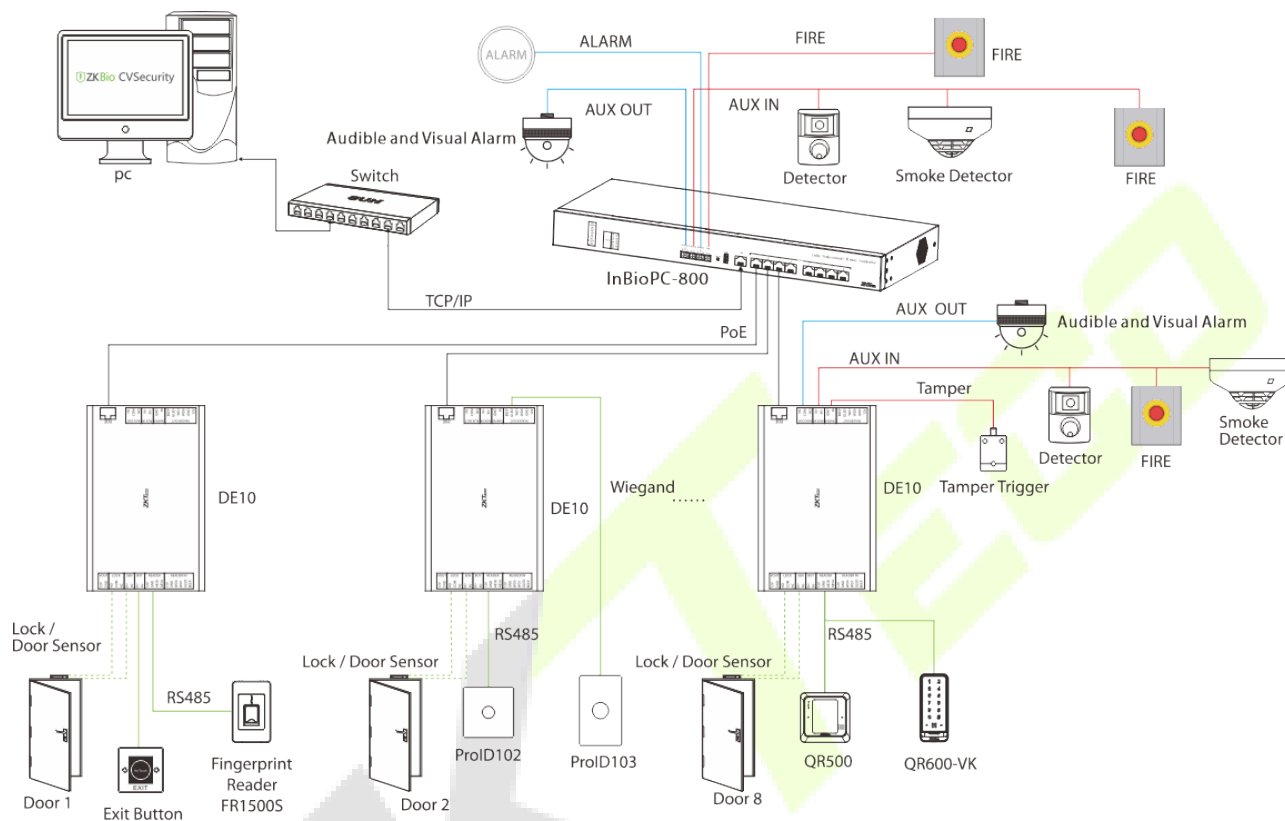
1. One DE10 supports the control of a number of door locks.
2. The system supports both Normally Opened Lock and Normally Closed Lock. The NO Lock (normally opened when powered) is connected with 'NO1' and 'COM' terminals, and the NC Lock (normally closed when powered) is connected with 'NC1' and 'COM' terminals.
3. In order to prevent the electric lock from generating self-induced electromotive force on the access control system at the moment of switching, it is necessary to connect a diode in parallel with the electric lock (please use the FR107 supplied with the system) to release the self-induced electromotive force during the wiring of the field application of the access control system.
4. The VOUT terminal of the DE10 can supply power to the electric lock, but the lock's current draw must be less than 800mA.





## 8 Access Control System

Please use the power supply configured for the InBioPC series controller which is rated 100 - 240V, AC 50/60Hz.

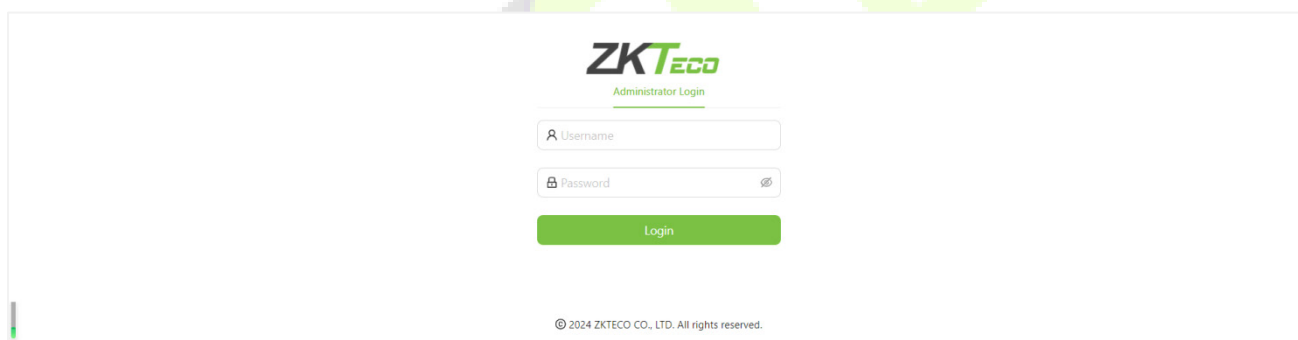
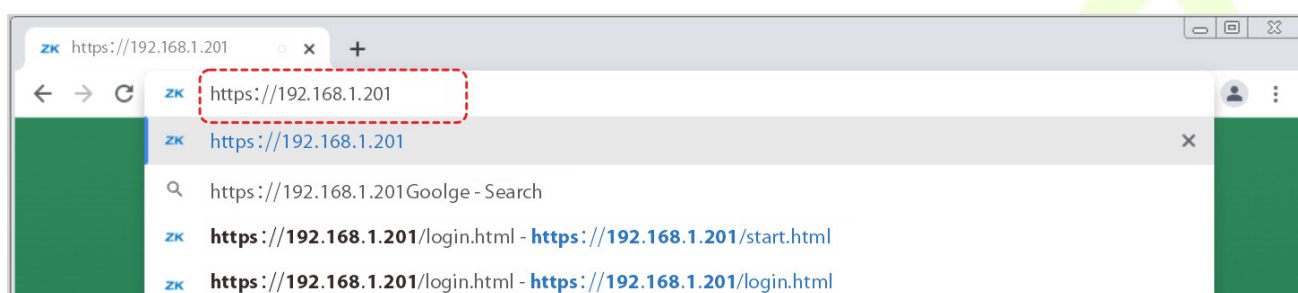


## 9 Login to WebServer

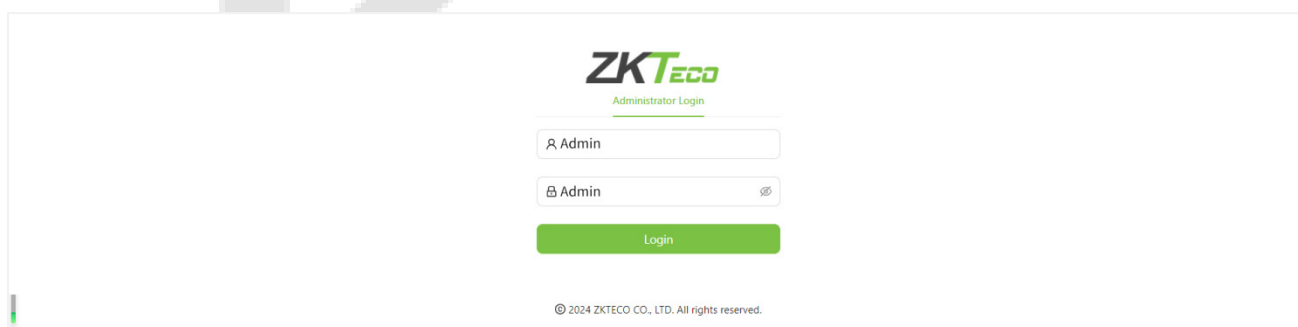
The device has a built-in WebServer, which supports setting device parameters and checking device status, etc. on PC and cell phone.

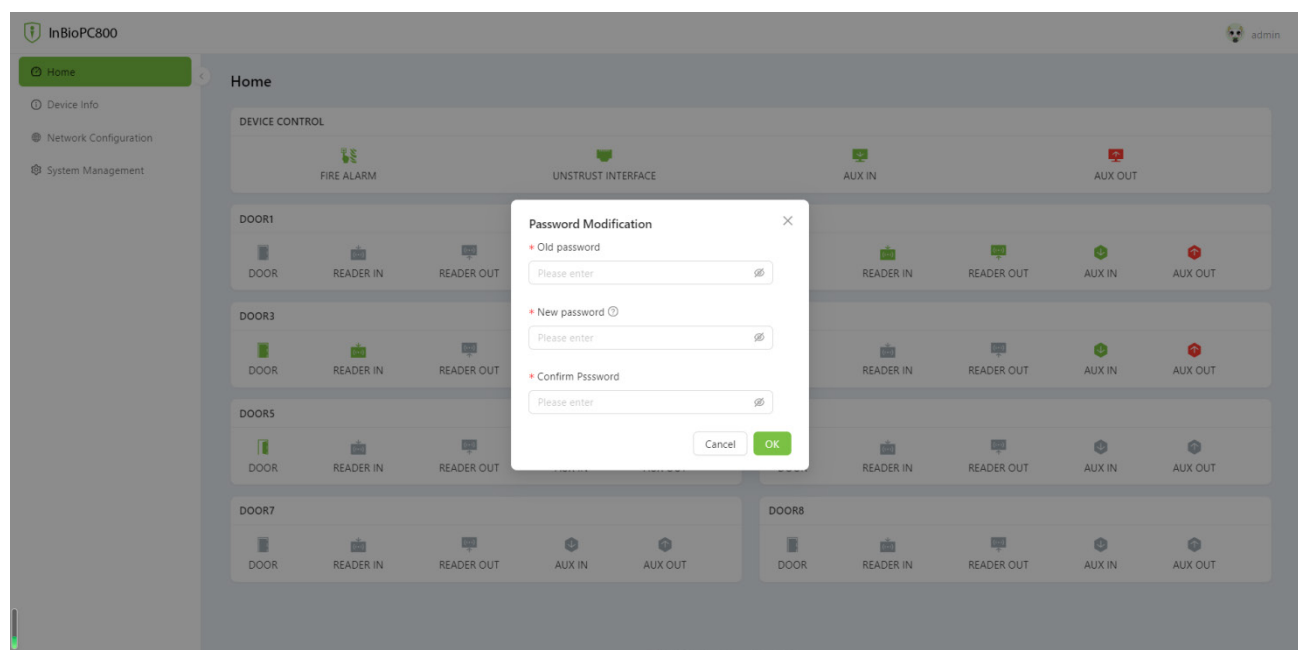
### 9.1 PC

1. After the device is connected to power and connected to the network, open a browser and log in to the WebServer by entering the address, which is the **https:// IP address**. For example: **https://192.168.1.201**.



2. Enter the WebServer account and password, the default account is: **admin** and the password is: **admin**.

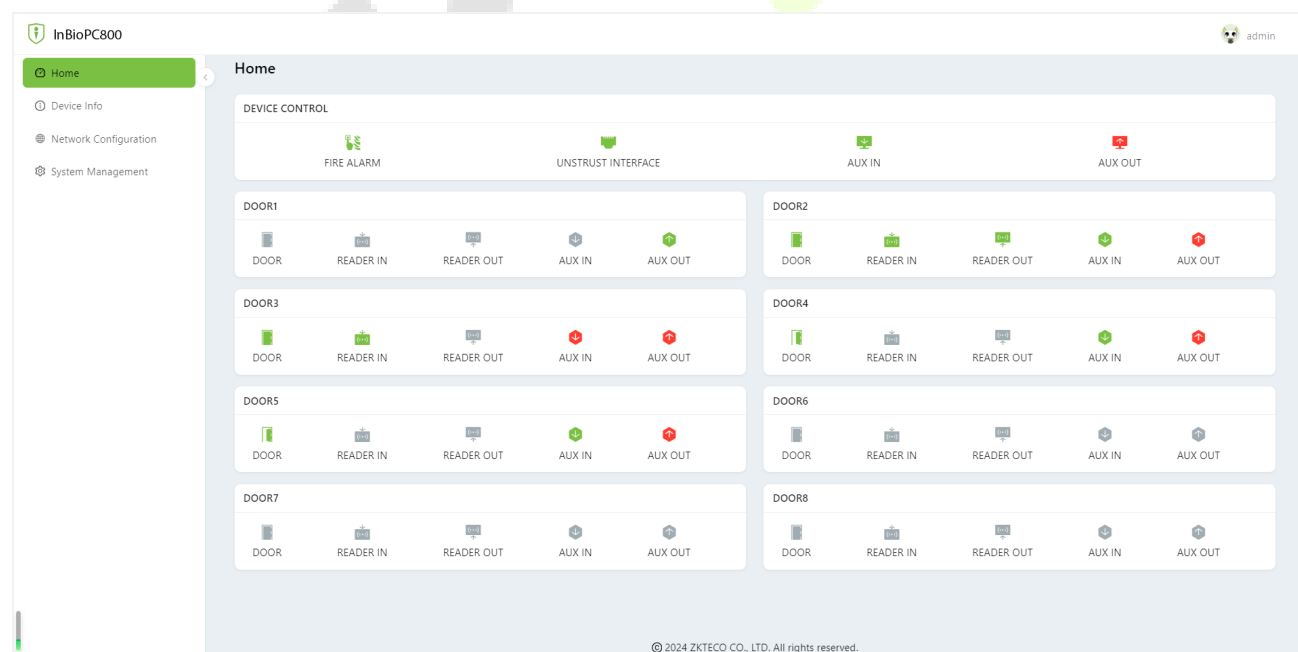




**Note:** The system is the initial password, the user logs in or visits the home page, the system reminds to modify the password, modify the success of the need to re-login.

## Status Information

In the opened WebServer page, click **[Home]** to view the status information of all peripheral devices connected to the device such as reader, auxiliary input, auxiliary output, network and door.



## Device Information

Click **[Device Info]** to browse the basic information and time information of the device.

The screenshot displays the 'Device Info' page for an InBioPC800 device. The left sidebar contains navigation links: Home, Device Info (selected), Network Configuration, and System Management. The main content area is titled 'Device Info' and is divided into two sections: 'Basic Info' and 'Time Info'. The 'Basic Info' section shows the Device Name as 'InBioPC800', Serial Number as 'QAQ4242200004', MAC Address as '00:17:61:13:24:43', and Firmware Version as 'AC Ver 20.0.10 Jul 23 2024'. The 'Time Info' section shows the NTP State as 'Close', NTP Server Address, Time Zone as 'UTC+0800', Device Time as '2024-07-25 15:07:41', and a 'Start Sync' button. The footer indicates '© 2024 ZKTECO CO., LTD. All rights reserved.'

## Network Configuration

Click **[Network Configuration] > [TCP/IP Setting]** to change the IP address of the device, and you need to log in again after changing the IP address.

The screenshot displays the 'Network Configuration' page for an InBioPC800 device. The left sidebar contains navigation links: Home, Device Info, Network Configuration (selected), and System Management. The main content area is titled 'Network Configuration' and has two tabs: 'TCP/IP Setting' (selected) and 'Service Setting'. The 'TCP/IP Setting' tab shows input fields for IP Address (192.168.1.201), Subnet Mask (255.255.255.0), Gateway Address (192.168.1.1), and DNS (8.8.8.8), each with a dropdown arrow. A 'Save' button is located below these fields. The footer indicates '© 2024 ZKTECO CO., LTD. All rights reserved.'

Click **[Network Configuration] > [Service Setting]** to support devices to connect to the server, such as ZKBioCVSecurity.

The screenshot shows the 'Network Configuration' page with the 'Service Setting' tab selected. The left sidebar contains links for Home, Device Info, Network Configuration (highlighted), and System Management. The main content area has two tabs: 'TCP/IP Setting' and 'Service Setting'. Under 'Service Setting', there are four fields: 'Server Mode' (dropdown menu set to 'IP Mode'), 'Connection Method' (dropdown menu set to 'HTTPS'), 'IP Address' (text field with '192.168.1.50' and a refresh icon), and 'Port' (text field with '8088'). A green 'Save' button is at the bottom. A copyright notice '© 2024 ZKTECO CO., LTD. All rights reserved.' is at the bottom center.

## System Management

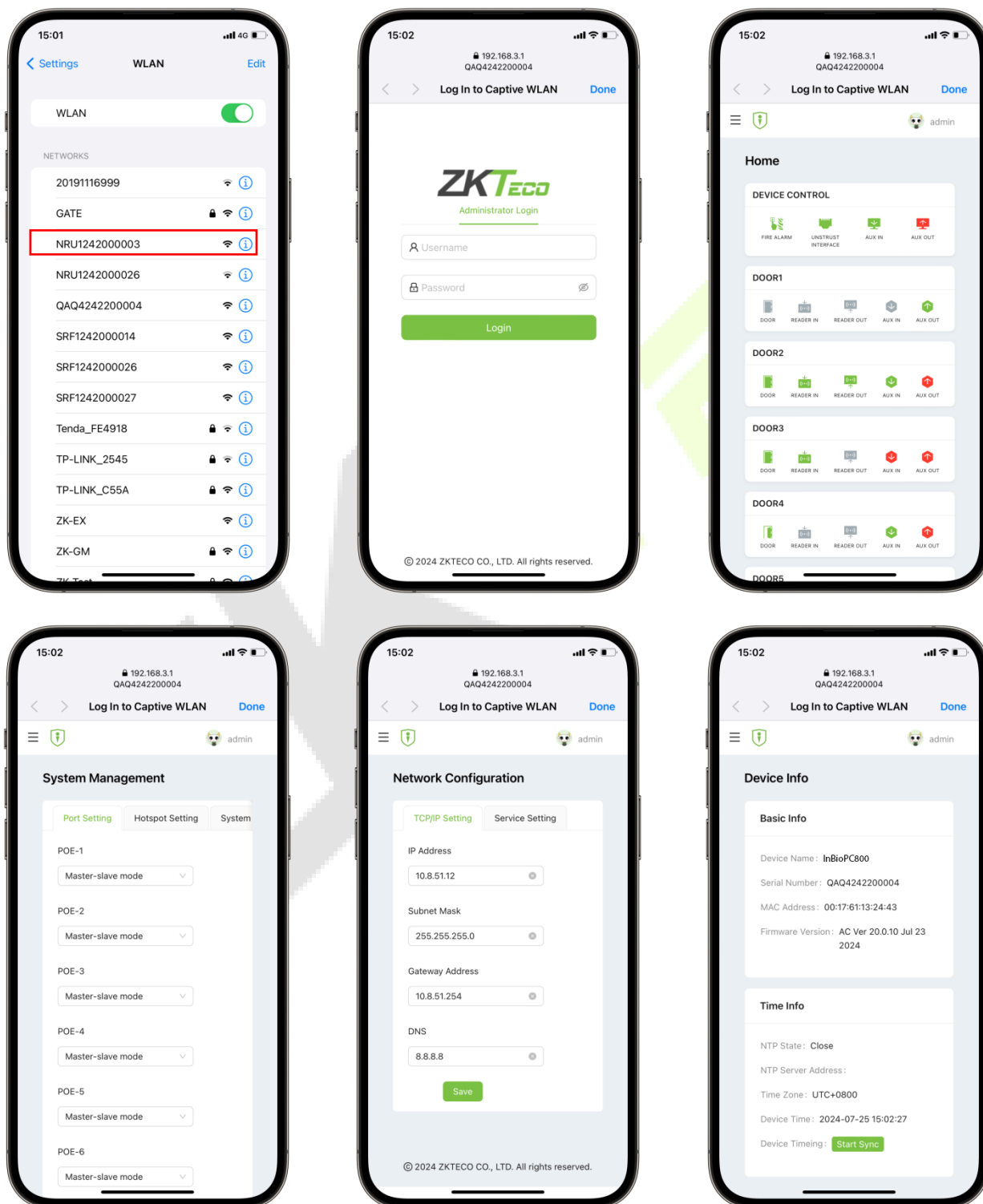
Click **[System Management]** to support setting device PoE port mode, setting Wi-Fi hotspot and reboot/restore factory settings/device upgrade.

The screenshot shows the 'System Management' page with the 'Port Setting' tab selected. The left sidebar contains links for Home, Device Info, Network Configuration, and System Management (highlighted). The main content area has five tabs: 'Port Setting' (highlighted), 'Hotspot Setting', 'System Maintenance', 'POE Status', and 'Network Detection-PING'. Under 'Port Setting', there are eight dropdown menus labeled 'POE-1' through 'POE-8'. A dropdown menu is open for 'POE-2', showing 'Master-slave mode' (highlighted) and 'Switch mode'. A green 'Save' button is at the bottom. A note at the bottom states: 'The switch of network port mode requires a restart of the changed network port to take effect, which will cause the PoE power supply and network to be disconnected for a few seconds before automatically recovering!'.

**Note:** The PoE port can be set as Main-sub mode or Switch mode. The switch of network port mode requires a restart of the changed network port to take effect which will cause the PoE power supply and network to be disconnected for a few seconds before automatically recovering!

## 9.2 Phone

There is no need to enter the IP address of the device on the cell phone. After the device is connected to the power supply and the network, the cell phone should be close to the device, find the hotspot of the device (by default, it is the serial number of the device), and then click on it and enter the WebServer account and password in the pop-up login interface.

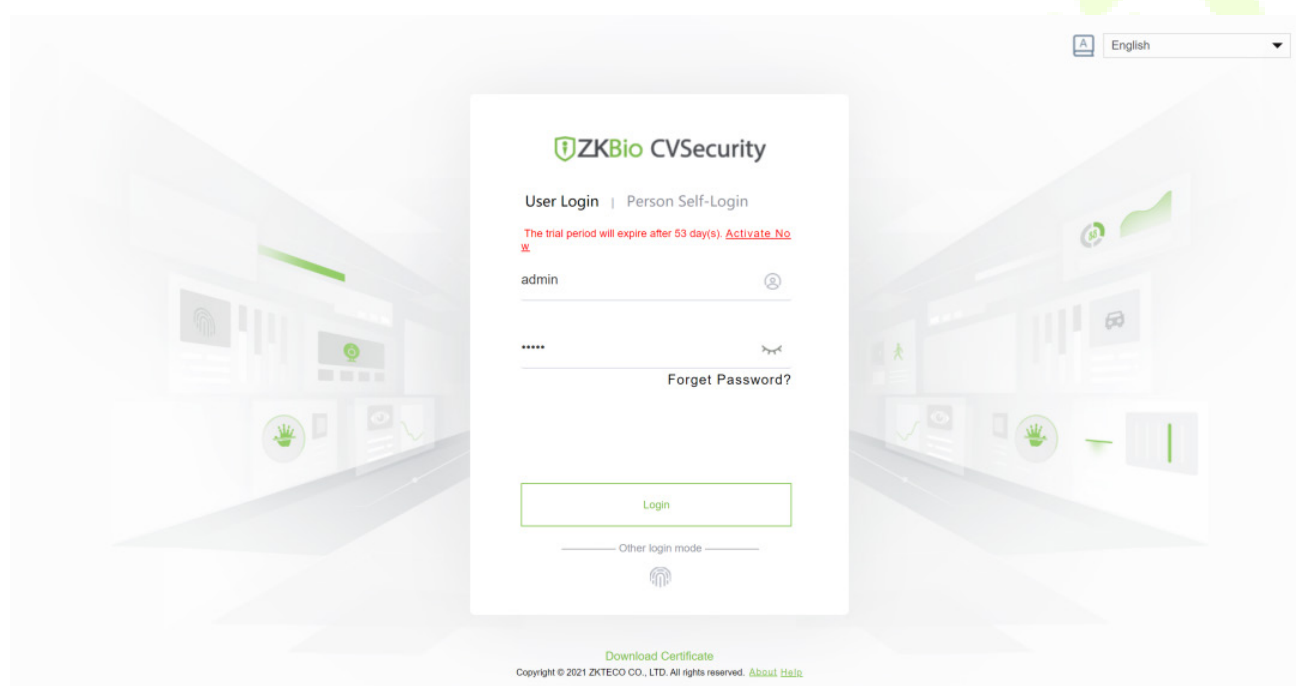


## 10 ZKBio CVSecurity Integration

The device connects to ZKBio CVSecurity by setting up ZKBio CVSecurity-related information in [Web Configuration] > [Server Settings] of the WebServer (no need to set up if the device and the server are in the same network segment). The device can add devices, set up access control rules, set up global anti-passback, linkage, interlocking, and other access control operations on ZKBio CVSecurity.

### 10.1 Add the Device

1. Open ZKBio CVSecurity and log in to ZKBio CVSecurity by entering your account number and password.



2. In the **Access Control** module, select **[Device] > [Access Control Device]**.
3. On the device interface, click the **[Search]** button to pop up a search box.
4. Click **[Start Search]** in the search box to display the **access control devices** that can be added, as shown in the figure below.



Search

No device found? [Download Search Tools to Local Disk](#)

Total Progress  100%

Searched devices count:1  
Number of devices added:1

IP Address  Device Type  Serial Number

| IP Address      | MAC Address | Subnet Mask   | Gateway Add...  | Serial Number | Device Type | Set Server | Operations           |
|-----------------|-------------|---------------|-----------------|---------------|-------------|------------|----------------------|
| 192.168.134.168 |             | 255.255.255.0 | 192.168.134.254 | CN3M212460001 | TDB08M-TI/M |            | This device has been |

The current system communication port is 8088, please make sure the device is set correctly.

Close

5. Optional: Modify the IP address of the **Access Control** device, click **[Modify IP Address]**, the device will be restarted after modifying the IP address, and the IP address modification will be completed after the restart.
6. For the searched access control devices, click the **[Add]** button in the operation bar to add the device.

New

Device Name\*

Communication Type\* ☒ TCP/IP ☐ RS485

IP Address\*

Communication port\*

Communication Password

Icon Type\*

Control Panel Type

Area\*

Add to Level

Clear Data in the Device when Adding ☐

[Clear Data in the Device when Adding] will delete data in the device (except event record), please use with caution!

OK Cancel

## 10.2 Door

1. In the **Access Control** module, select **[Devices] > [Door]**.
2. In the management interface of the door, click the **[Edit]** button in the door operation bar to pop up the door parameter setting box.
3. In the door parameter setting interface, fill in the corresponding parameters according to the addition requirements, as shown in figure below.

The screenshot shows an 'Edit' dialog box for configuring door parameters. The settings are organized into two columns. The left column includes fields for Device Name, Door Name, Verification Mode, Operate Interval, Anti-Passback Duration of Entrance, Duress Password, Emergency Password, and a checkbox for Disable Alarm Sounds. The right column includes fields for Door Number, Active Time Zone, Lock Open Duration, Door Sensor Type, Door Sensor Delay, Passage Mode Time Zone, and Multi-Person Operation Interval. At the bottom, there is a checkbox for 'The above settings are copied to' followed by a dropdown menu. The OK and Cancel buttons are located at the bottom right of the dialog.

## 10.3 Reader

1. In the **Access Control** module, choose **[Device] > [Reader]**.
2. In the Operation column of the corresponding Reader, click . The bind/unbind camera page is displayed.
3. On the Select Reader screen, set the Reader as required, as shown in figure below.

Binding/unbinding the camera

Channel Name  Serial Number

Alternative

| <input type="checkbox"/> | Channel Name   | Owned Device | Serial Number  |
|--------------------------|----------------|--------------|----------------|
| <input type="checkbox"/> | 192.168.134.59 | AS1700       | 21024127099SL8 |

Selected(0)

| <input type="checkbox"/> | Channel Name | Owned Device | Serial Number |
|--------------------------|--------------|--------------|---------------|
|--------------------------|--------------|--------------|---------------|

>>  
>  
<  
<<

No data

1-1 50 rows per page

OK Cancel

## 10.4 Auxiliary Input

1. Click **[Access Device] > [Auxiliary Input]** on the Action Menu, to access below shown interface.
2. Click on **[Name]** or **[Edit]** to modify the parameters as shown below:

ZKBio CVSecurity

Access Device

Device

I/O Board

Door

Reader

**Auxiliary Input**

Auxiliary Output

Event Type

Daylight Saving Time

Device Monitoring

Real-Time Monitoring

Alarm Monitoring

Map

Access / Access Device / Auxiliary Input

Name  Device Name  Printed Name

Refresh

| Name                     | Device Name | Number | Printed Name | Bound camera | Owning Board | Remarks | Operations                                                                |
|--------------------------|-------------|--------|--------------|--------------|--------------|---------|---------------------------------------------------------------------------|
| <b>Auxiliary Input-1</b> | ZKT_Korea   | 1      | IN1          |              |              |         | <input type="button" value="Edit"/> <input type="button" value="Delete"/> |

Edit

Device Name\*

Number\*

Name\*

Printed Name\*

Active Time Zone

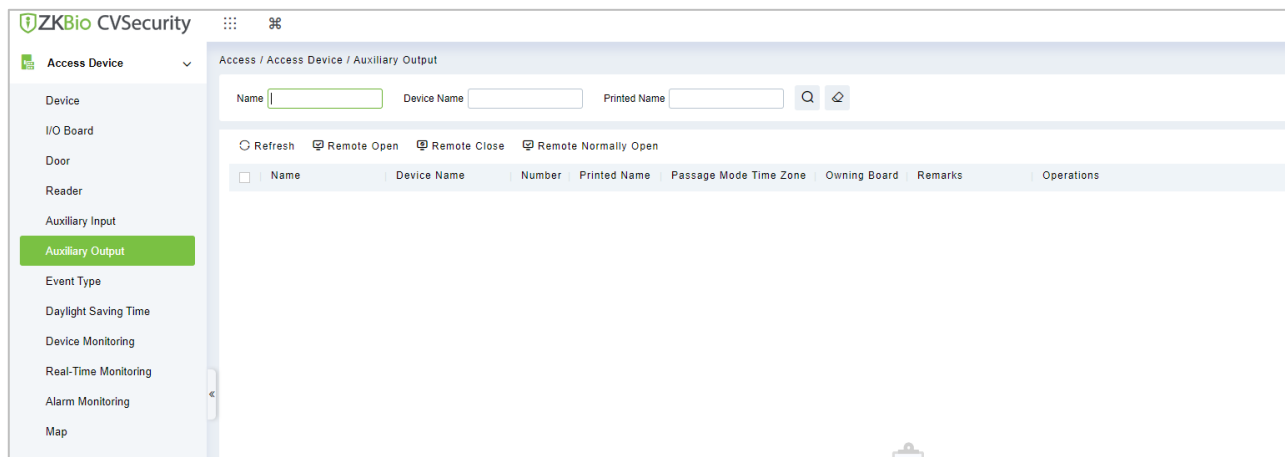
Remarks

OK Cancel

3. Click **[OK]** to save the name and remark and exit.

## 10.5 Auxiliary Output

1. Click **[Access Device] > [Auxiliary Output]** on the Action Menu to access the following interface:



2. Click **[Edit]** to modify the parameters.

The 'Edit' dialog box is shown with the following fields and values:

| Field                  | Value              |
|------------------------|--------------------|
| Device Name*           | 192.168.12.155     |
| Number*                | 1                  |
| Name*                  | Auxiliary Output-1 |
| Printed Name*          | OUT1               |
| Passage Mode Time Zone | -----              |
| Remark                 |                    |

At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.

3. Click **[OK]** to save the name and remark and exit.

## 10.6 Event Type

1. Click **[Access Device]** > **[Event]** to access the following page:

Access / Access Device / Event Type

Event Name  Event Number  Event Level  More

| <input type="checkbox"/>            | Event Name                   | Event Number | Event Level | Device Name | Serial Number | Operations                       |
|-------------------------------------|------------------------------|--------------|-------------|-------------|---------------|----------------------------------|
| <input checked="" type="checkbox"/> | Normal_Verify_Open           | 0            | Normal      | ZKT_Korea   | CL63202960014 | <input type="button" value="✎"/> |
| <input type="checkbox"/>            | Verify_During_Passage_Mode_T | 1            | Normal      | ZKT_Korea   | CL63202960014 | <input type="button" value="✎"/> |
| <input type="checkbox"/>            | First-Personnel_Open         | 2            | Normal      | ZKT_Korea   | CL63202960014 | <input type="button" value="✎"/> |
| <input type="checkbox"/>            | Multi-Personnel_Open         | 3            | Normal      | ZKT_Korea   | CL63202960014 | <input type="button" value="✎"/> |
| <input type="checkbox"/>            | Emergency_Password_Open      | 4            | Normal      | ZKT_Korea   | CL63202960014 | <input type="button" value="✎"/> |
| <input type="checkbox"/>            | Open_during_Passage_Mode_T   | 5            | Normal      | ZKT_Korea   | CL63202960014 | <input type="button" value="✎"/> |
| <input type="checkbox"/>            | Linkage_Event_Triggered      | 6            | Normal      | ZKT_Korea   | CL63202960014 | <input type="button" value="✎"/> |
| <input type="checkbox"/>            | Cancel_Alarm                 | 7            | Normal      | ZKT_Korea   | CL63202960014 | <input type="button" value="✎"/> |

2. Click **[Edit]** or click the event type name to edit.

Edit

Device Name\*

Event Number\*

Event Level\*

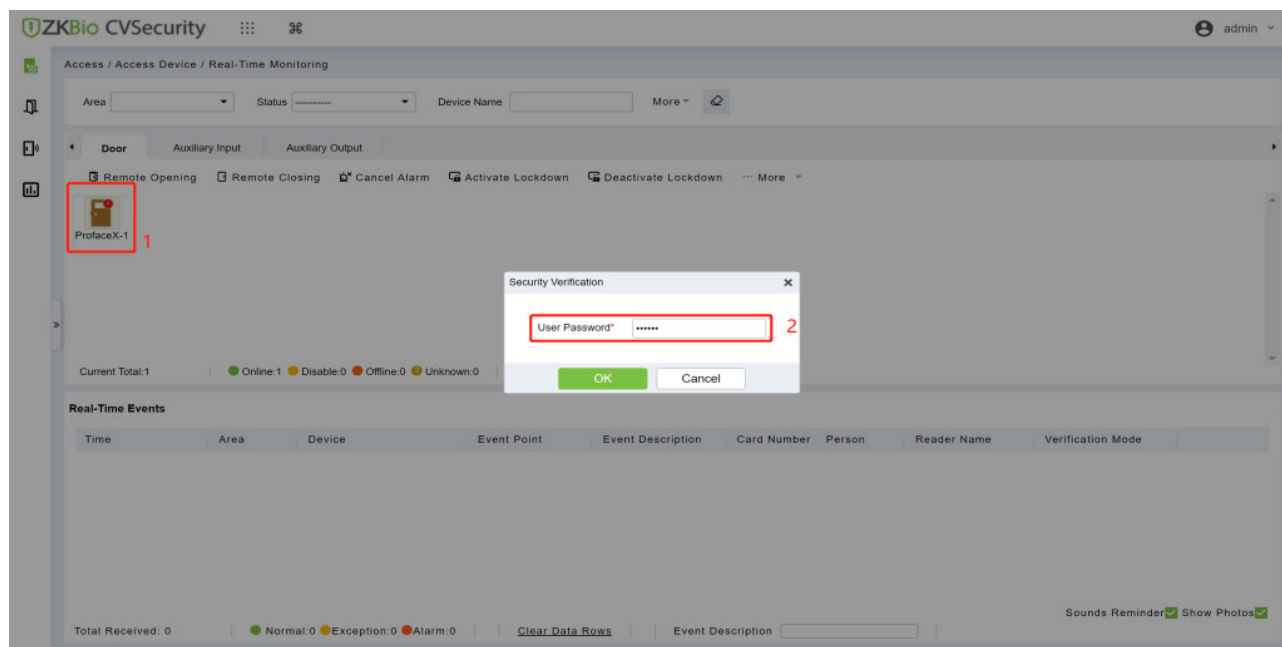
Event Name\*

Event Sound ☒ Already Exists ☐ Upload

Copy the above settings to all devices ☐

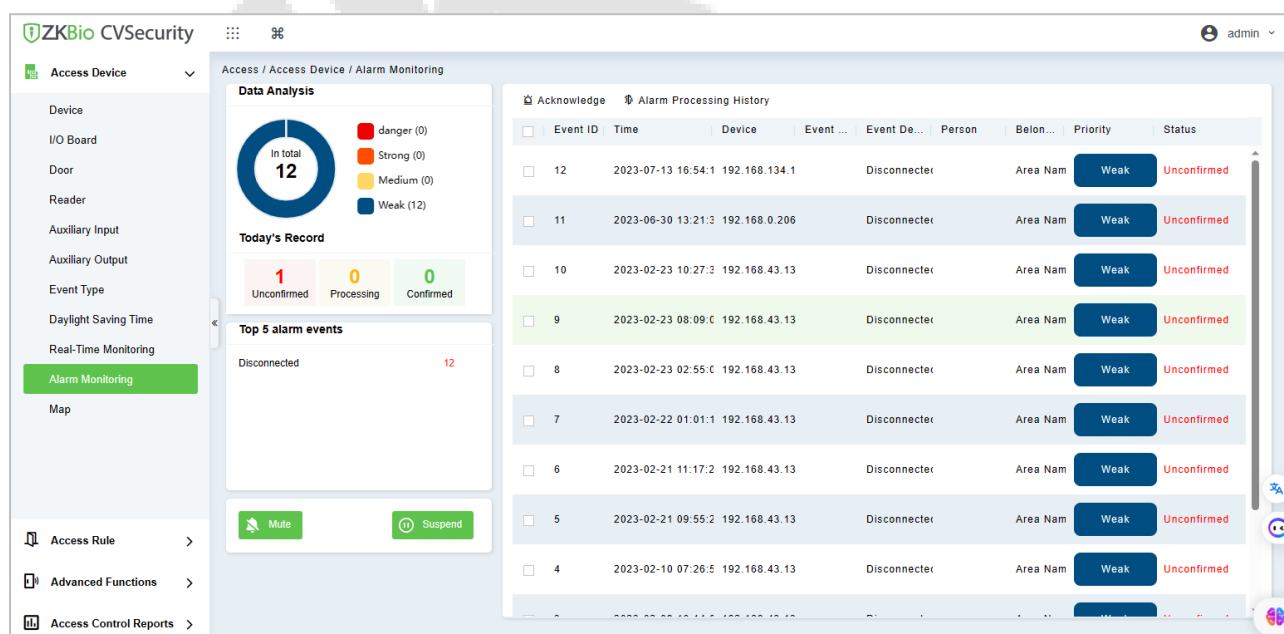
## 10.7 Real-Time Monitoring

1. In the **Access Control** module, choose **[Access Control Device] > [Real-time Monitoring]**.
2. Check whether the icon status of the added device is online.



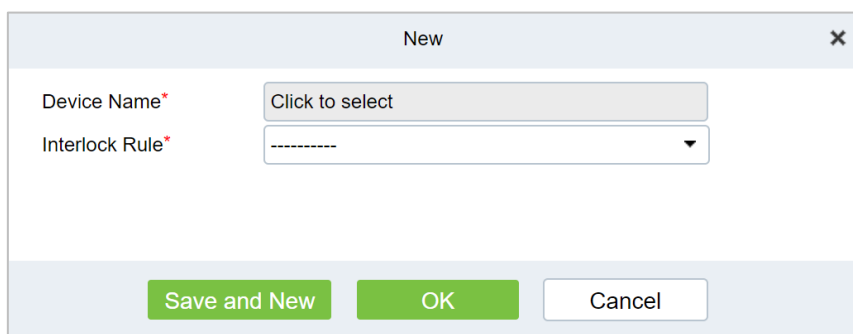
## 10.8 Alarm Monitoring

It will monitor the status and real-time events of doors under the access control panels in the system in real-time, including normal events and abnormal events.



## 10.9 Interlock

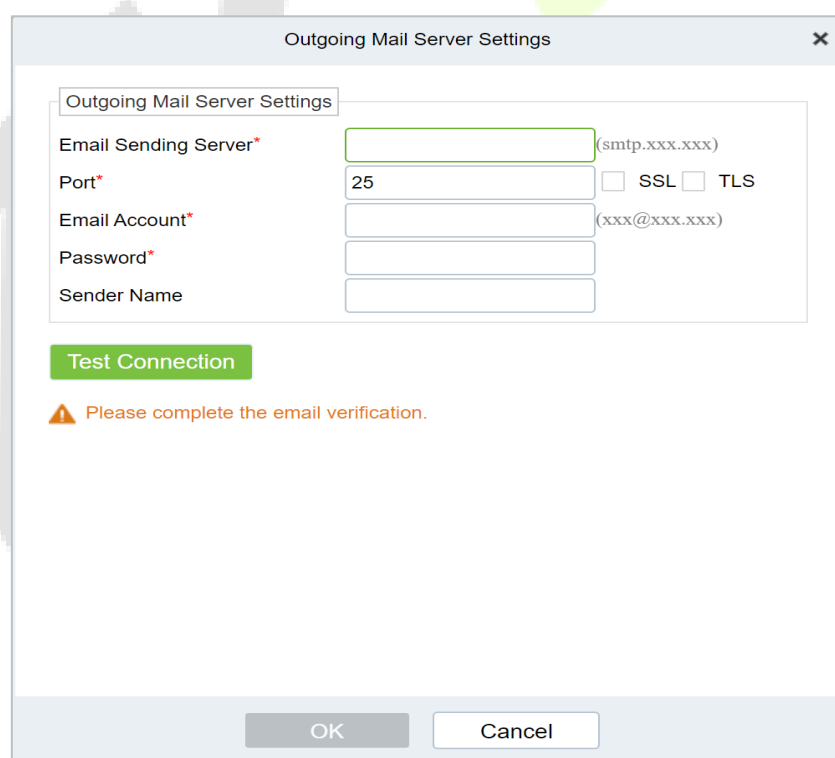
Set interlock control between two or more doors on the access controller device: To verify the opening of a door, ensure that all other doors interlocked with the door are closed; otherwise, the door cannot be opened. In the **Access Control** module, choose **[Access Control] > [Interlock]** and click **[New]**.



The 'New' dialog box for setting interlock control. It features two input fields: 'Device Name\*' with a 'Click to select' button, and 'Interlock Rule\*' with a dropdown menu. At the bottom, there are three buttons: 'Save and New' (green), 'OK' (green), and 'Cancel' (white).

## 10.10 Linkage

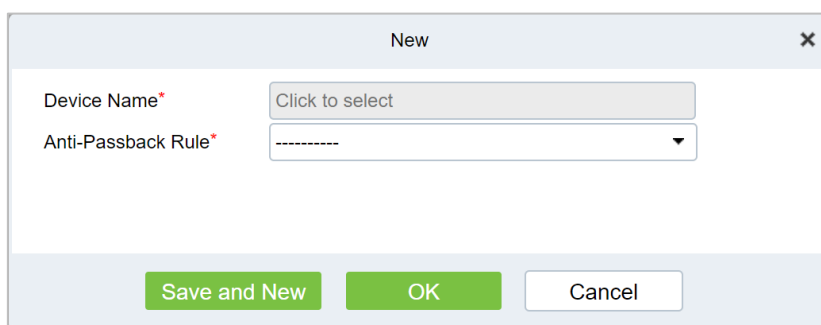
The use method and scenario of linkage are flexible. After a specific event is triggered by an input point in the **Access Control** system, a linkage action will be generated at the specified output point to control events such as verification opening, alarm and abnormality in the system. Add Settings for binding cameras to access control devices, input points, output points, and reader.



The 'Outgoing Mail Server Settings' dialog box. It contains a tab labeled 'Outgoing Mail Server Settings' and several input fields: 'Email Sending Server\*' (with a placeholder '(smtp.xxx.xxx)'), 'Port\*' (with a value of 25), 'Email Account\*' (with a placeholder '(xxx@xxx.xxx)'), 'Password\*', and 'Sender Name'. There are checkboxes for 'SSL' and 'TLS'. A green 'Test Connection' button is located below the input fields. At the bottom, there is a warning icon and the text 'Please complete the email verification.' and two buttons: 'OK' and 'Cancel'.

## 10.11 Anti-Passback

Some occasions require the personnel that brush card to verify, brush card to come in from a door must brush card to go out from another door, brush card record must enter a strict correspondence. This function can be used when users enable it in the settings. It is generally used in special units, scientific research, bank vaults and other occasions. In the **Access Control** module, choose **[Access Control] > [Anti-Passback]** and click **[New]**.



The screenshot shows a 'New' dialog box with a title bar containing 'New' and a close button. Inside the dialog, there are two fields: 'Device Name\*' with a dropdown menu showing 'Click to select', and 'Anti-Passback Rule\*' with a dropdown menu showing '-----'. At the bottom of the dialog, there are three buttons: 'Save and New' (green), 'OK' (green), and 'Cancel' (white).

For more detailed information on the use of the ZKBio CVSecurity, please refer to the *ZKBio CVSecurity User Manual*.



## Appendix 1

### Privacy Policy

#### Notice:

To help you better use the products and services of ZKTeco (hereinafter referred to as “we”, “our”, or “us”) a smart service provider, we consistently collect your personal information. Since we understand the importance of your personal information, we took your privacy sincerely and we have formulated this privacy policy to protect your personal information. We have listed the privacy policies below to precisely understand the data and privacy protection measures related to our smart products and services.

**Before using our products and services, please read carefully and understand all the rules and provisions of this Privacy Policy. If you do not agree to the relevant agreement or any of its terms, you must stop using our products and services.**

#### I. Collected Information

To ensure the normal product operation and help the service improvement, we will collect the information voluntarily provided by you or provided as authorized by you during registration and use or generated as a result of your use of services.

- 1. User Registration Information:** At your first registration, the feature template (**Fingerprint template/Face template/Palm template**) will be saved on the device according to the device type you have selected to verify the unique similarity between you and the User ID you have registered. You can optionally enter your Name and Code. The above information is necessary for you to use our products. If you do not provide such information, you cannot use some features of the product regularly.
- 2. Product information:** According to the product model and your granted permission when you install and use our services, the related information of the product on which our services are used will be collected when the product is connected to the software, including the Product Model, Firmware Version Number, Product Serial Number, and Product Capacity Information. **When you connect your product to the software, please carefully read the privacy policy for the specific software.**

#### II. Product Security and Management

- 1.** When you use our products for the first time, you shall set the Administrator privilege before performing specific operations. Otherwise, you will be frequently reminded to set the Administrator privilege when you enter the main menu interface. **If you still do not set the**

**Administrator privilege after receiving the system prompt, you should be aware of the possible security risk (for example, the data may be manually modified).**

2. All the functions of displaying the biometric information are disabled in our products by default. You can choose Menu > System Settings to set whether to display the biometric information. If you enable these functions, we assume that you are aware of the personal privacy security risks specified in the privacy policy.
3. Only your user ID is displayed by default. You can set whether to display other user verification information (such as Name, Department, Photo, etc.) under the Administrator privilege. **If you choose to display such information, we assume that you are aware of the potential security risks (for example, your photo will be displayed on the device interface).**
4. The camera function is disabled in our products by default. If you want to enable this function to take pictures of yourself for attendance recording or take pictures of strangers for access control, the product will enable the prompt tone of the camera. **Once you enable this function, we assume that you are aware of the potential security risks.**
5. All the data collected by our products is encrypted using the AES 256 algorithm. All the data uploaded by the Administrator to our products are automatically encrypted using the AES 256 algorithm and stored securely. If the Administrator downloads data from our products, we assume that you need to process the data and you have known the potential security risk. In such a case, you shall take the responsibility for storing the data. You shall know that some data cannot be downloaded for sake of data security.
6. All the personal information in our products can be queried, modified, or deleted. If you no longer use our products, please clear your personal data.

### III. How We Handle Personal Information of Minors

Our products, website and services are mainly designed for adults. Without consent of parents or guardians, minors shall not create their own account. If you are a minor, it is recommended that you ask your parents or guardian to read this Policy carefully, and only use our services or information provided by us with consent of your parents or guardian.

We will only use or disclose personal information of minors collected with their parents' or guardians' consent if and to the extent that such use or disclosure is permitted by law or we have obtained their parents' or guardians' explicit consent, and such use or disclosure is for the purpose of protecting minors.

Upon noticing that we have collected personal information of minors without the prior consent from verifiable parents, we will delete such information as soon as possible.

#### **IV. Others**

You can visit [https://www.zkteco.com/en/index/Index/privacy\\_protection.html](https://www.zkteco.com/en/index/Index/privacy_protection.html) to learn more about how we collect, use, and securely store your personal information. To keep pace with the rapid development of technology, adjustment of business operations, and to cope with customer needs, we will constantly deliberate and optimize our privacy protection measures and policies. Welcome to visit our official website at any time to learn our latest privacy policy.

## Eco-friendly Operation



The product's "eco-friendly operational period" refers to the time during which this product will not discharge any toxic or hazardous substances when used in accordance with the prerequisites in this manual.

The eco-friendly operational period specified for this product does not include batteries or other components that are easily worn down and must be periodically replaced. The battery's eco-friendly operational period is 5 years.

### Hazardous or Toxic substances and their quantities

| Component Name | Hazardous/Toxic Substance/Element |              |              |                            |                                |                                       |
|----------------|-----------------------------------|--------------|--------------|----------------------------|--------------------------------|---------------------------------------|
|                | Lead (Pb)                         | Mercury (Hg) | Cadmium (Cd) | Hexavalent Chromium (Cr6+) | Polybrominated Biphenyls (PBB) | Polybrominated Diphenyl Ethers (PBDE) |
| Chip Resistor  | ×                                 | ○            | ○            | ○                          | ○                              | ○                                     |
| Chip Capacitor | ×                                 | ○            | ○            | ○                          | ○                              | ○                                     |
| Chip Inductor  | ×                                 | ○            | ○            | ○                          | ○                              | ○                                     |
| Diode          | ×                                 | ○            | ○            | ○                          | ○                              | ○                                     |
| ESD component  | ×                                 | ○            | ○            | ○                          | ○                              | ○                                     |
| Buzzer         | ×                                 | ○            | ○            | ○                          | ○                              | ○                                     |
| Adapter        | ×                                 | ○            | ○            | ○                          | ○                              | ○                                     |
| Screws         | ○                                 | ○            | ○            | ×                          | ○                              | ○                                     |

This table is prepared in accordance with the provisions of SJ/T 11364.

○ indicates that the total amount of toxic content in all the homogeneous materials is below the limit as specified in GB/T 26572.

× indicates that the total amount of toxic content in all the homogeneous materials exceeds the limit as specified in GB/T 26572.

**Note:** 80% of this product's components are manufactured using non-toxic and eco-friendly materials. The components which contain toxins or harmful elements are included due to the current economic or technical limitations which prevent their replacement with non-toxic materials or elements.

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